User Manual

Administration of Operating Devices

Part Number:	80860.772
Version:	1
Date:	2010-11-17
Valid for:	Slim Line emPower Line

Version	Date	Modifications
1	2010-11-17	First Edition

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Overall Table of Contents

1 Important Notes 1-1
1.1 Symbols 1-1
1.2 Safety Notes 1-1
1.3 Intended Use 1-2
1.4 Target Group 1-2

2 Generally 2-1
2.1 Launch Overview 2-2
2.2 Normal Mode 2-3
2.3 Setup Main Mode 2-3
2.4 Administration Operating Mode 2-4

3 Backup and Transfer 2-6
3.1 Create Backup 2-6
3.2 Restore backup 2-6
3.3 Restore / Transfer Settings 2-7
3.3.1 All Settings 2-7
3.3.2 Network Settings 2-8

4 Update 2-9
4.1 Image 2-9
4.2 Bootloader 2-10

5 Restrict Access 2-11
5.1 Task bar 2-11
5.2 Lock Launch 2-12

6 Start Application 2-13
6.1 Automatic Start (starter.bat) 2-13
6.2 Manual Start (project.bat) 2-13

1 Important Notes

1.1 Symbols

The symbols in this manual are used to draw your attention on notes and dangers.

This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

DANGER
This symbol is used to refer to instructions which, if ignored or not carefully followed, will result in death or serious injury.

WARNING
This symbol is used to refer to instructions which, if ignored or not carefully followed, could result in death or serious injury.

CAUTION
This symbol is used to refer to instructions which, if ignored or not carefully followed, could result in minor or moderate injury.

NOTICE
This symbol and the accompanying text alerts the reader to a situation which may cause damage or malfunction to the device, either hardware or software, or surrounding property.

Reference to source of information
This symbol refers to detailed sources of information on the current topic.

1.2 Safety Notes

- Read this manual carefully before using the operating device. Keep this manual in a place where it is always accessible to all users.
- Proper transportation, handling and storage, placement and installation of this product are prerequisites for its subsequent flawless and safe operation.
- This user manual contains the most important information for the safe operation of the device.
- The user manual, in particular the safety notes, must be observed by all personnel working with the device.
- Observe the accident prevention rules and regulations that apply to the operating site.
- Installation and operation must only be carried out by qualified and trained personnel.

1.3 Intended Use

- The device is designed for use in the industry.
- The device is state-of-the art and has been built to the latest standard safety requirements. However, dangerous situations or damage to the machine itself or other property can arise from the use of this device.
- The device fulfills the requirements of the EMC directives and harmonized European standards. Any modifications to the system can influence the EMC behavior.

NOTICE: Radio Interference
This is a class A device. This device may cause radio interference in residential areas. In this case, the user may be required to introduce appropriate countermeasures, and to bear the cost of same.

1.4 Target Group

All configuration, programming, installation, commissioning, operating and maintenance work in connection with the automation system must be performed by trained personnel only (e.g. qualified electricians, electrical engineers, etc.).

The configuration and programming personnel must be familiar with the safety concepts of automation technology.

The operating personnel must have been trained in handling the controller and be familiar with the operating instructions.

The installation, commissioning and maintenance personnel must have an education which entitles them to work on automation systems.

2 Generally

The program allows you to use the buttons to make changes to the configuration.

The operating device has 3 operating modes:

– Normal (no button is pressed)
– Setup Main (Button **Press For Setup Main Menu** was pressed)
– Administration (**Admin** button was pressed)

2.1 Launch Overview

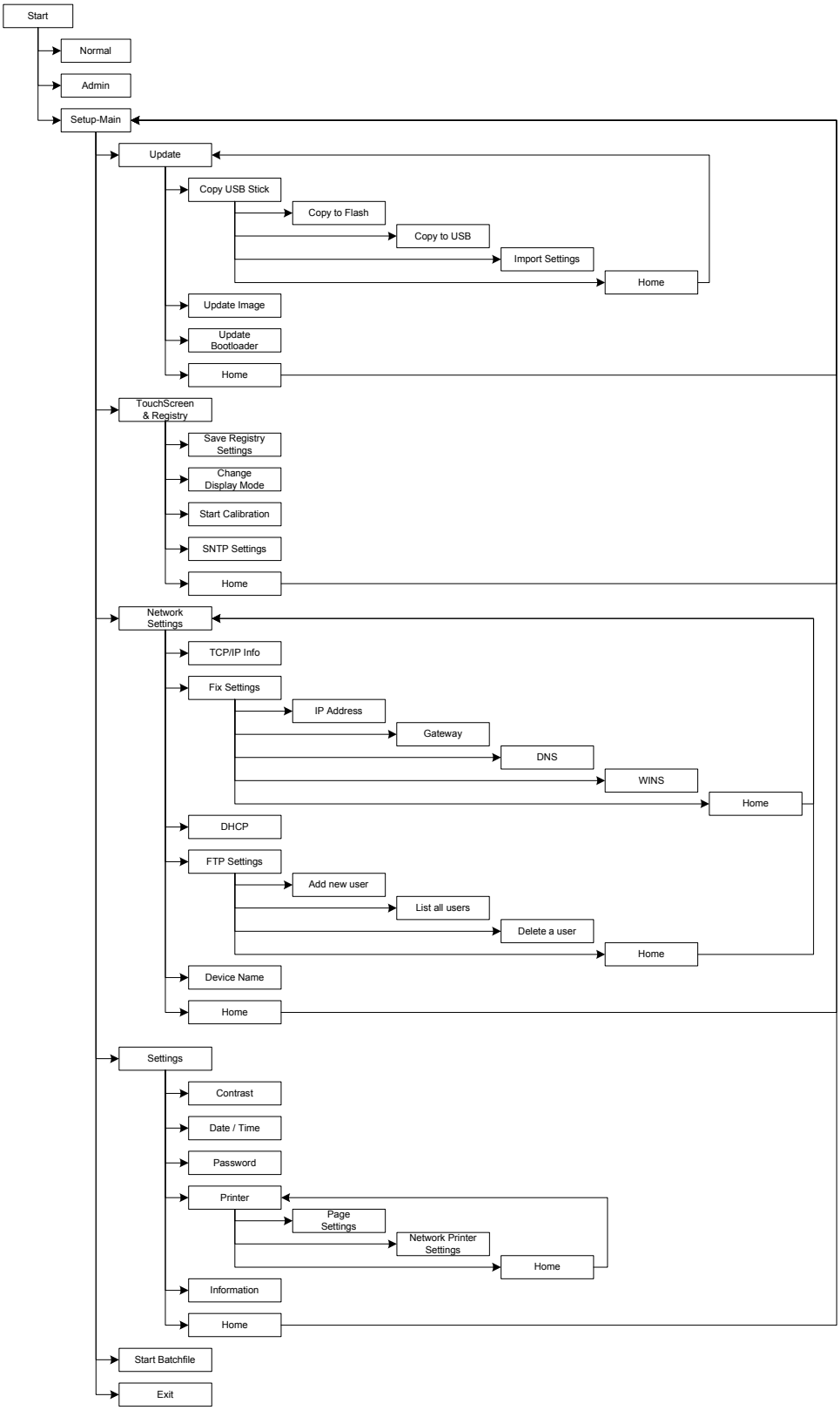

Figure 2-1 Launch overview

2.2 Normal Mode

The program AppStarter.exe starts from the internal Flash memory.

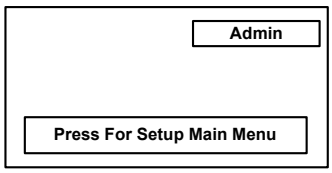

Figure 2-2 Display after startup

Please, note that the device is accessible over the Ethernet only after assignment of an IP address to the Ethernet.

2.3 Setup Main Mode

If you press the **Press For Setup Main Menu** button during the startup phase, the "Setup Main" mode starts.

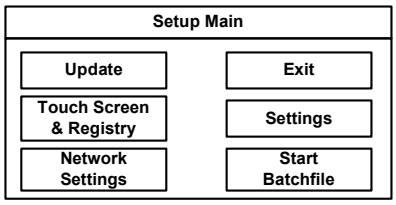

Figure 2-3 Setup Main

Some settings are password-protected. The password is "+-+-".

2.4 Administration Operating Mode

If you press the **Admin** button during the startup phase, the Administration mode of operation starts.

You can use the Admin.ini file to manage the device. This file must exist in the root directory of the USB stick.

This file is used as a dongle to prevent users from changing the device during normal operation.

Possible contents for the Admin.ini file:

Observe upper and lower case for all entries!

Explorer=Off	Deactivates the Explorer in the registry. The change becomes effective on the next device reboot.
Explorer=On	Activates the Explorer in the registry. The change becomes effective on the next device reboot.
Start=explorer.exe	Starts the explorer
Start=MyProgram.exe	Starts the application MyProgram.exe Initial directory is windows. Use the following syntax to start an application on the usb stick: Start=\\\\HardDisk\\MyProgram.exe Use multiple entries to start several applications.
Registry=Default	Destroys the current registry and activates the default registry of the image. The change becomes effective on the next device reboot.
StartRepllog=On	Enables automatic startup of the Repllog.exe program in the registry. The change becomes effective on the next device reboot.
StartRepllog=Off	Disables automatic startup of the Repllog.exe program in the registry. The change becomes effective on the next device reboot.
LaunchTouch=On	The touch variant of the launch will start at devices with keyboard. The change becomes effective on the next device reboot.
LaunchTouch=Off	The standard variant for the device will start. The change becomes effective on the next device reboot.
Lock=On	The buttons **Press for Setup Main Menu** and **Admin** are disabled. If the file „Admin.ini“ is found on the usb stick the button **Admin** is enabled. Therefore the deactivation of the lock is possible. The change becomes effective on the next device reboot.
Lock=Off	All buttons enabled. The change becomes effective on the next device reboot.
Mode=Development	The shell has full functionality. The change becomes effective on the next device reboot.

Mode=Standard	The Shell is restricted: No task bar and task switch available. Desktop contains the launch icon only. The change becomes effective on the next device reboot.
DeviceName=MyName	Defines the device name of the operating device
;DeviceName=MyName	Comment, no impact

A template of the file "Admin.ini" can be downloaded here:
http://download.suetron.net/manual/Admin.ini

3 Backup and Transfer

You can backup and restore your data (application, batch files, Launch.log etc.) with the button **Update -> Copy USB stick** in the **Setup main** operating mode. You can also import saved device settings.

The backups can be transferred to other operating devices with this mechanism.

3.1 Create Backup

You can perform a full backup to the directory "backup" of a USB stick.

Backup to USB stick

1. Press the button **Press For Setup Main Menu** during startup.
2. Press the **Update** button.
3. Press the **Copy USB Stick** button.
4. Insert a USB stick into the female connector of the operating device.
5. Press the button **Copy to USB**.
6. Confirm the dialog with the **OK** button to start copying.

The files are copied to the directory "Backup" on the USB stick. If there is already a directory called "Backup" with data on the USB stick you have to confirm overwriting in the dialog with **Yes**.

7. Confirm the successful copying by pressing the **OK** button.

3.2 Restore backup

NOTICE
When restoring the backup all data in the flash memory of the operating device will be deleted.

You can restore a previously created backup from the directory "Backup" of a USB stick.

Restore backup from USB stick

1. Press the button **Press For Setup Main Menu** during startup.
2. Press the **Update** button.
3. Press the **Copy USB Stick** button.
4. Insert the USB stick with the backup into the female connector of the operating device.
5. Press the **Copy to Flash** button.
6. Select the folder "Backup" from the **Choose Directory** dialog and press the **OK** button.
7. Confirm the dialog with the **OK** button to start copying.

The backup files are copied from the directory "Backup" to the flash memory of the operating device.

3.3 Restore / Transfer Settings

In addition when you create the backup the file "Launch.log" is secured. This contains the settings (for example IP address, contrast etc.) of the operating device as configured in the **Setup main** operating mode.

With this file you can restore the settings on a operating device or transfer it to other devices.

The process of backup and restore all settings is possible only with identical device types.

3.3.1 All Settings

However, if the target device is not the operating device with which the backup was created, you have to remove the calibration data from the file „Launch.log“ first.

1. Open the file "Launch.log" on the USB stick with your favorite editor (e.g. "Notepad").
2. Select the line that begins with the following text:

```
[RegString][HARDWARE\DEVICEMAP\TOUCH]
```

3. Delete the line completely.
4. Save the file.

If the operating device no longer be operable by inadvertently imported calibration, use a mouse to start the calibration with **TouchScreen & Registry** -> **Start Calibration**.

Import settings from backup

1. Press the button **Press For Setup Main Menu** during startup.
2. Press the **Update** button.
3. Press the **Copy USB Stick** button.
4. Insert the USB stick with the backup into the female connector of the operating device.
5. Press the **Import Settings** button.
6. Confirm the dialog with the **OK** button to start import.

The settings are imported from the file "Launch.log".

7. Confirm the successful import by pressing the **OK** button.
8. Restart the operating device for the settings to take effect.

3.3.2 Network Settings

When required only the network settings of the operating device can be imported with the „Launch.log“ file.

Import network settings

1. Edit the file "Launch.log" on the USB stick with your favorite editor (e.g. "Notepad") and remove the irrelevant lines from the file.

The content could look like this:

```
[RegString][Comm\CS89501\Parms\TcpIp]IpAddress=192.168.039.210
[RegString][Comm\CS89501\Parms\TcpIp]Subnetmask=255.255.255.000
[RegString][Comm\CS89501\Parms\TcpIp]DefaultGateway="192.168.039.001"
[RegDWORD][Comm\CS89501\Parms\TcpIp]EnableDHCP=0
[RegMString][Comm\CS89501\Parms\TcpIp]DNS="""
[RegMString][Comm\CS89501\Parms\TcpIp]WINS="""
```

With fixed IP addresses, the row with the entry EnableDHCP must exist. If this line is missing, DHCP is automatically activated.

2. Save the file.
3. Press the button **Press For Setup Main Menu** during startup of the operating device.
4. Press the **Update** button.
5. Press the **Copy USB Stick** button.
6. Insert the USB stick with the backup into the female connector of the operating device.
7. Press the **Import Settings** button.
8. Confirm the dialog with the OK button to start import.

The settings are imported from the file "Launch.log".

9. Confirm the successful import by pressing the **OK** button.
10. Restart the operating device for the settings to take effect.

4 Update

4.1 Image

The operating device offers you the opportunity to update its image. The image includes the operating system and product-specific data. The name of the image file is constructed as follows: "Image_Type_Platform_OperatingSystem_Version.bin". The file name of an image file starts with the description "Image" and ends with the image version.

Identify existing image version

1. Press the button **Press For Setup Main Menu** during startup.
2. Press the **Settings** button.
3. Press the **Information** button.
4. Determine the version of the image in the second line of the dialog.

Carrying out image update

1. Copy the image into the directory "Image" of a USB stick.

Only one image may be existing in the directory "Image". If multiple images exists no update is performed.

2. Insert the USB stick with the image into the female connector of the operating device.
3. Press the button **Press For Setup Main Menu** during startup.
4. Press the **Update** button.
5. Press the **Update Image** button.
6. Confirm the dialog **Update Image** with the **OK** button to start the update.

The update progress is displayed.

NOTICE
Please do not interrupt the power supply during update. After canceling an update process, the operating device may not be operational anymore.

7. Confirm the restore of the default registry with the **OK** button.
8. Confirm the successful update with the **OK** button.
9. Restart the operating device for the update to take effect.

4.2 Bootloader

The operating device offers you the opportunity to update its bootloader. The bootloader starts the operating system and product-specific functions. The name of the bootloader file is constructed as follows:
"Bootloader_Type_Platform_OperatingSystem_Version.bin". The file name of a bootloader file starts with the description "Bootloader" and ends with the bootloader version.

Updating the bootloader

1. Copy the bootloader into the directory "Bootloader" of your USB stick.

Only one bootloader may be existing in the directory "Bootloader". If multiple bootloaders exists no update is performed.

2. Insert the USB stick with the image into the female connector of the operating device.
3. Press the button **Press For Setup Main Menu** during startup.
4. Press the **Update** button.
5. Press the **Update Bootloader** button.
6. Confirm the dialog with the OK button to start the update.

NOTICE
Please do not interrupt the power supply during update. After canceling an update process, the operating device may not be operational anymore.

7. Confirm the successful update with the **OK** button.

Restart the operating device for the update to take effect.

5 Restrict Access

5.1 Task bar

You can prevent access to the operating system with the task bar by disabling the task bar. This is achieved by administration with the file "Admin.ini". This file must be available in the root folder of the USB stick.

Disable task bar

1. Edit the file "Admin.ini" in the root directory of your USB stick with your favorite editor (e.g. "Notepad").

If the "Admin.ini" does not exist, create the file.

2. Add the following line to the file or change an existing entry for this parameter:

```
Mode=Standard
```

3. Save the file.
4. Insert a USB stick into the female connector of the operating device.
5. Press the **Admin** button during startup of the operating device.
6. Confirm the dialog with the **OK** button to start the administration.

The message "Standard Mode set" is displayed.

7. Confirm this and the following dialog with the **OK** button to complete the administration.
8. Restart the operating device.

Activate task bar

Perform the following steps to activate the task bar:

1. Edit the file "Admin.ini" in the root directory of your USB stick with your favorite editor (e.g. "Notepad").

If the "Admin.ini" does not exist, create the file.

2. Add the following line to the file or change an existing entry for this parameter:

```
Mode=Development
```

3. Save the file.
4. Insert a USB stick into the female connector of the operating device.
5. Press the **Admin** button during startup of the operating device.
6. Confirm the dialog with the **OK** button to start the administration.

The message "Development Mode set" is displayed.

7. Confirm this and the following dialog with the **OK** button to complete the administration.
8. Restart the operating device.

5.2 Lock Launch

By the administration with the file "Admin.ini" you can lock the buttons **Admin** and **Press For Setup Main Menu** in the launch dialog and thus prevent changes of the user to the configuration.

Lock buttons at the launch

1. Edit the file "Admin.ini" in the root directory of your USB stick with your favorite editor (e.g. "Notepad").

If the "Admin.ini" does not exist, create the file.

2. Add the following line to the file or change an existing entry for this parameter:

```
Lock=On
```

3. Save the file.
4. Insert a USB stick into the female connector of the operating device.
5. Press the **Admin** button during startup of the operating device.
6. Confirm the dialog with the **OK** button to start the administration.

The message "Launch locked" is displayed.

7. Confirm this and the following dialog with the OK button to complete the administration.
8. Remove the USB stick and restart the operating device.

After the restart, all the buttons in the launch dialog are locked. The Admin button is activated whenever a USB stick is detected with existing "Admin.ini".

Activate buttons at the launch

Perform the following steps to activate the buttons in the launch:

1. Edit the file "Admin.ini" in the root directory of your USB stick with your favorite editor (e.g. "Notepad").

If the "Admin.ini" does not exist, create the file.

2. Add the following line to the file or change an existing entry for this parameter:

```
Lock=Off
```

3. Save the file.
4. Insert a USB stick into the female connector of the operating device.
5. Press the **Admin** button during startup of the operating device.
6. Confirm the dialog with the **OK** button to start the administration.

The message "Launch unlocked" is displayed.

7. Confirm this and the following dialog with the **OK** button to complete the administration.
8. Restart the operating device.

6 Start Application

6.1 Automatic Start (starter.bat)

You can run your application automatically on startup. Use the file "Starter.bat" therefore. This batch file runs automatically on each startup of the operating device.

Automatic start of an application

1. Open your FTP program or the Windows Explorer and enter the ip address of the operating device (example: ftp://149.208.160.232).
2. Download an existing file "starter.bat" from the root directory on your local file system or create a new file with this name.
3. Edit the file "starter.bat" with your favorite editor (e.g. "Notepad") and add the following content:

```
\FlashDrv\MyFolder\MyProgramm.exe -parameter
```

or

```
\StorageCard\MyFolder\MyProgramm.exe -parameter
```

With the appropriate paths, different memory areas of the operating device can be accessed. Some paths are dependent on the product line of the operating device:
USB stick: \HardDisk\
Device memory (Slim Line): \FlashDrv\
Device memory (emPower Line): \StorageCard\

4. Save the file.
5. Copy the file "starter.bat" with the FTP program into the root directory of the operating device.
6. Restart the operating device.

Now your application runs automatically each time the operating device is started.

6.2 Manual Start (project.bat)

You can start your own applications with the launch. Use the file "Project.bat" therefore. This batch file is executed by pressing the **Start Batchfile** button.

Manual start of an application

1. Open your FTP program or the Windows Explorer and enter the ip address of the operating device (example: ftp://149.208.160.232).
2. Download an existing file "project.bat" from the root directory on your local file system or create a new file with this name.
3. Edit the file "project.bat" with your favorite editor (e.g. "Notepad") and add the following content:

```
\FlashDrv\MyFolder\MyProgramm.exe -parameter
```

or

```
\StorageCard\MyFolder\MyProgramm.exe -parameter
```

With the appropriate paths, different memory areas of the operating device can be accessed. Some paths are dependent on the product line of the operating device:
USB stick: \HardDisk\
Device memory (Slim Line): \FlashDrv\
Device memory (emPower Line): \StorageCard\

4. Save the file.
5. Copy the file "project.bat" with the FTP program into the root directory of the operating device.
6. Restart the operating device and press the button **Press For Setup Main Menu** during startup.
7. Press the **Start Batchfile** button.

Your application will be started immediately.

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